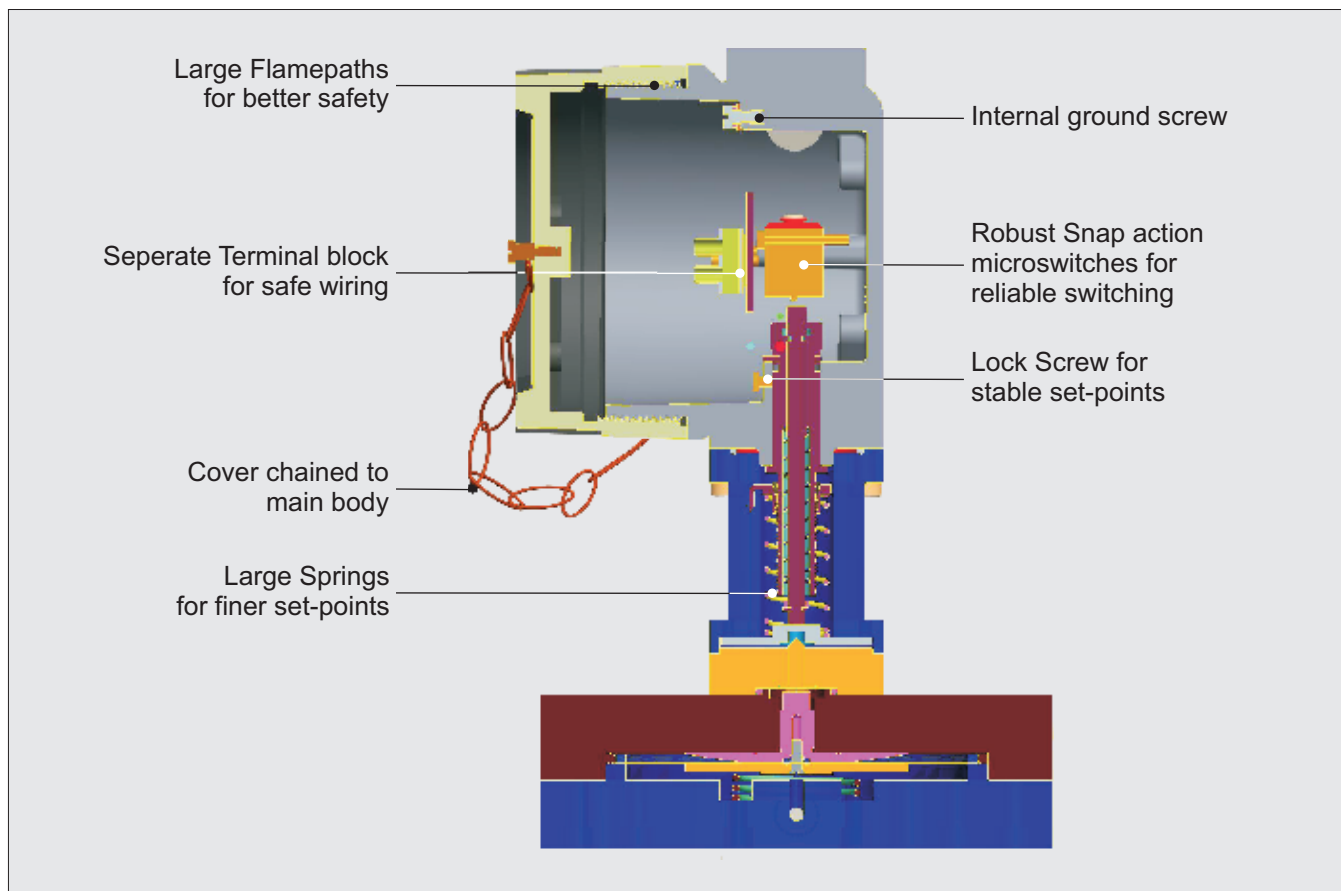


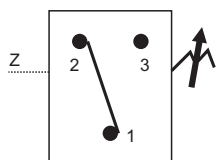
FC LOW ΔP HIGH PROOF PRESSURE DIFFERENCE SWITCHES



Approximate Weight :

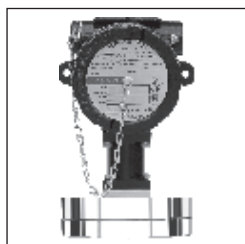
Pressure switches with Aluminium enclosure : 7.87 Kg.
 Pressure switches with Grey CI enclosure : 10.27 Kg.
 Pressure switches with SS enclosure : 10.42 Kg.

Electrical Connection :

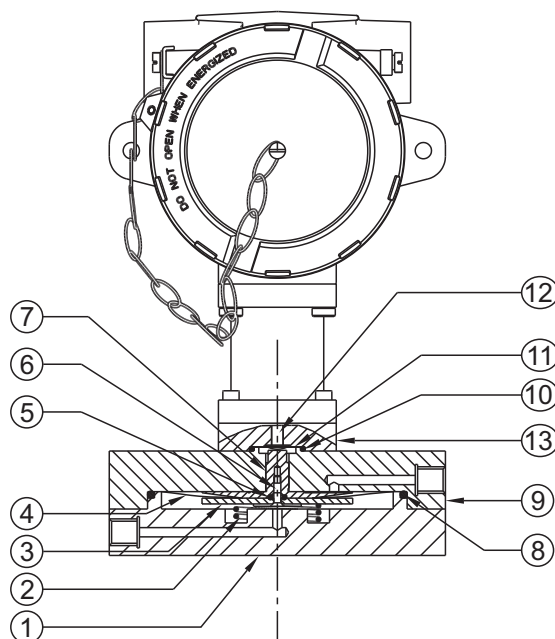


Some Applications :

Used in gas skids, cooling systems, applications requiring very low pressure difference but high system/proof pressure like pressurization in cross country pipelines, etc.



PRESSURE CAPSULE DETAILS

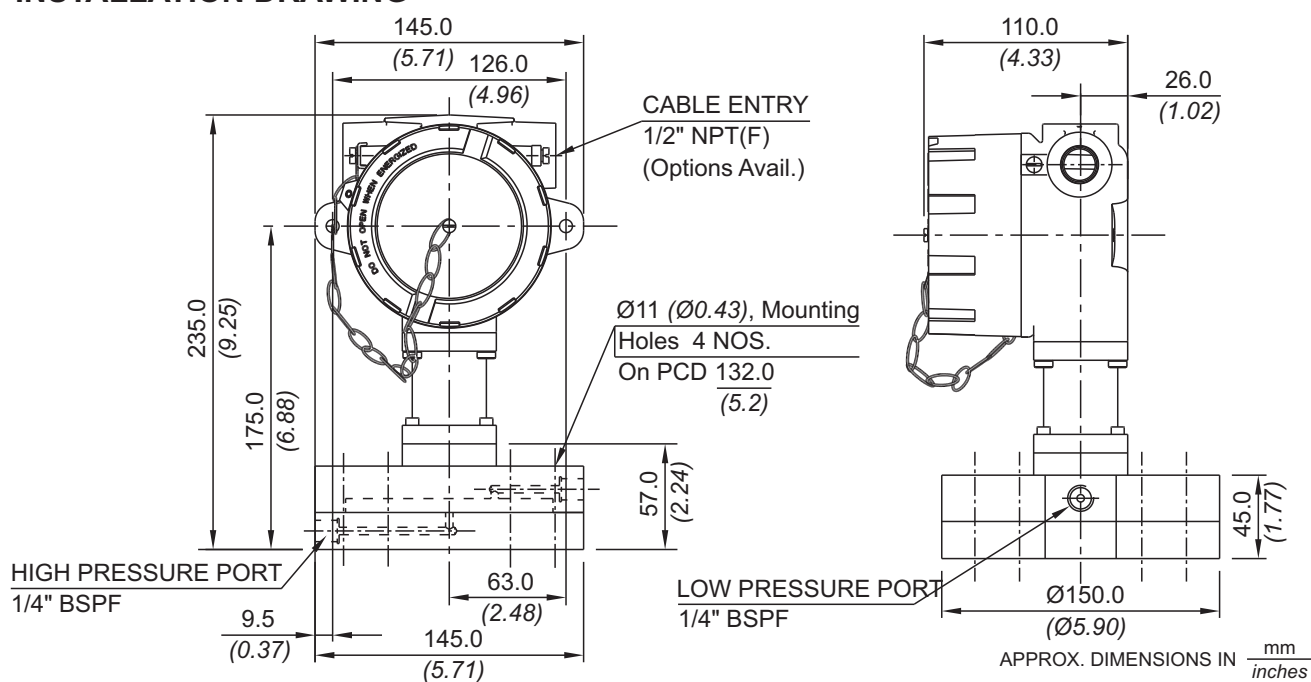


No. Description

1. High Pressure Housing
2. Spring
3. H P Plunger
4. Diaphragm
5. Plunger 'O' ring
6. Plunger Screw
7. L P Plunger
8. Main Sealing 'O' ring
9. Low Pressure Housing
10. Sealing 'O' ring
11. Diaphragm
12. Small Plunger

Note : wetted parts are mentioned in italics.

INSTALLATION DRAWING



FC LOW ΔP HIGH PROOF PRESSURE DIFFERENCE SWITCHES

RANGE SELECTION TABLE

Range Code	Range mbar ("wc)	Differential* mbar ("wc)	Maximum Working Pressure bar (psi)
		Approximate Maximum for "A1" microswitch	
M03	5 - 25 (2.007 - 10.037)	5 (2.007)	100 (1450.38)
M05	10 - 50 (4.015 - 20.073)	5 (2.007)	100 (1450.38)
M10	10 - 100 (4.015 - 40.150)	10 (4.015)	100 (1450.38)
M15	10 - 150 (4.015 - 60.22)	10 (4.015)	100 (1450.38)
M25	20 - 250 (8.029 - 100.366)	15 (6.022)	100 (1450.38)
M35	50 - 350 (20.073 - 140.52)	35 (14.05)	110 (1595.00)

*Minimum differential increases with setpoint, values with neoprene diaphragm (Graphs available on request)

* Differentials of microswitches A2 through A9 will vary. Differentials for A7 are typically twice that for A1 microswitch. Please indicate specifically the differential value in enquiry/order, when it is critical in your application.

HOW TO ORDER FLAMEPROOF LOW ΔP HIGH PROOF RANGE PRESSURE DIFFERENCE SWITCHES

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
Non standard allocation	Gas Group Classification	Cable Entry Size	Switch Type	Range Code (values in mbar)	Microswitch Type	Pressure Port Material / Size	Diaphragm
☐ Reserved for non-standard options not covered in catalogue. Will be given by manufacturer, only after agreement of supply details with customer.	FC = Flameproof pressure switch, ATEX & IECEx approved, with Aluminium head as per IS/IEC 60079-1 for Gas Gr. IIC	1 = Al. head 1/2" NPT threads 2 = Al. head 3/4" NPT threads 3 = Al. head M20 x 1.5 threads 4 = Grey CI head 1/2" NPT threads 5 = Grey CI head 3/4" NPT threads 6 = Grey CI head M20 x 1.5 threads 7 = SS head 1/2" NPT threads 8 = SS head 3/4" NPT threads 9 = SS head M20 x 1.5 threads	D1 = pressure difference switch, fixed differential without scale D2 = pressure difference switch, fixed differential with scale in mbar D3 = pressure difference switch, fixed differential with scale in "wc	M03 = (5 - 25) M05 = (10 - 50) M10 = (10 - 100) M15 = (10 - 150) M25 = (20 - 250) M35 = (50 - 350)	A1 = General purpose microswitch rated at 15 A; 250 VAC A2 = Hermetically sealed for corrosive environments A3 = gold plated contacts for low voltage applications A4 = DPDT configuration A5 = for high DC ratings A6 = elements with adjustable deadband A7 = 2SPDT switching elements A9 = General purpose microswitch rated at 5 A; 250 VAC	S1 = SS316 / 1/4" BSP(F) S2 = SS316 / 1/4" NPT(F)	0 = Neoprene 1 = Teflon
						Please refer page no. 226 & 227 for more pressure port options	For additional wetted parts please refer Pressure Capsule Details on Page 63
						Please refer page no. 230 for more microswitch options * Please refer note under Range Selection Table	

eg. A flameproof switch for gas group IIC, with 1/2" NPT cable entry in aluminium housing as 1SPDT pressure switch, having 20 mbar to 250 mbar pressure range, with 15Amp. microswitch, SS316 pressure housing with 1/4" BSP port size & neoprene diaphragm shall be specified by

Group 1	Group 2	Group 3	Group 4	Group 5	Group 6	Group 7	Group 8
☐	FC	1	P1	M25	A1	S1	0

Please specify full model number to avoid ambiguity. If only the first two groups are specified while ordering, uncalibrated switches with standard wetted parts and enclosures will be supplied.

LOW ΔP HIGH PROOF PRESSURE DIFFERENCE SWITCHES

FC